

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of

James K. Guy

Serial No.: 10/022,881

Group Art Unit: 2851

Filed: December 13, 2001

Examiner: Michael Dalakis

For: Cathode Design

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## CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. § 1.8(a))

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Date:

April 7, 2003

Signature

Angie Moscovitz

AMENDMENT UNDER 37 CFR §1.111

Box Non-Fee Amendment  
Commissioner for Patents  
Washington, D.C. 20231

Sir:

Applicant submits this Amendment in response to the Office Action dated January 7, 2003. This response is timely because it is being filed within the three (3) month time period set for a response. Please amend the above-identified application as follows:

**In the Drawings:**

Please substitute the one sheet of drawings submitted herewith containing Figures 1, 2, 3, and 4 in place of the originally filed drawing sheet containing the same figures.

**In the Detailed Description:**

Please amend paragraph [0029] on page 9 to appear as follows:

[0029] (Amended) The electrically wound magnetic core 30 is illustrated as coupled to the sidewall 42 in FIGURE 3, however, FIGURE 4 illustrates the electrically wound magnetic core 30 coupled to the second annular element 44. One skilled in the art will understand that numerous alternate positions of the electrically wound magnetic core 30 are within the scope of the present invention. The electrically wound magnetic core 30 includes a plurality of electro-magnets.

Please amend paragraph [0030] on page 10 to appear as follows:

[0030] (Amended) The rotor 32 is embodied as a second annular member including a second frame 50 coupled to a plurality of permanent magnets 31 (second magnetic core). Both the rotor 32 and stator assembly 28 are rotatably attached to a portion of each of the plurality of diaphragm leaves 18 through pivot pins 38. The pivot pins 38 are ideally placed such that a first pin 39 on each leaf attaches to the rotor 32 and a second pin 41 on the alternate side of at least one of the leaves attaches to the stator assembly frame 34, as will be understood by one skilled in the art. The rotor